BREAKING BARRIERS

POLY 2 *LEARNING SYSTEM*

POLY 2
ON
OFF
POWER
POLY 2

the BREAKTHROUGH

New Zealand's **first** computer-based, creative learning support system was Poly 1. It quickly established itself as a significant educational and training tool, right across curriculum and the classroom.

Poly 1 also lead into the whole area of training, and it paved the way for the development of a more powerful learning system from Progeni

— One that breaks through the final barriers to computer based learning — ***POLY 2***

BREAKING the LEARNING BARRIER

Progeni's Poly 2 is a learning system powerful enough to extend itself across the widest spectrum of learning experience, and all levels of education, training or retraining, in the classroom, in industry and in commerce.

It's a purpose designed, learning oriented system that places the student or trainee in control of the learning process, and extends his, or her individual learning capacity.

A great motivator in any learning situation, Poly 2 quite effortlessly elicits greater performance. On the Poly 2 screen — explicit graphics, animation, simulation and prompts enhance powers of concentration.

The desire to learn is also stimulated as Poly 2 lets the learner progress stage by stage, or move into significant, lateral thinking processes.

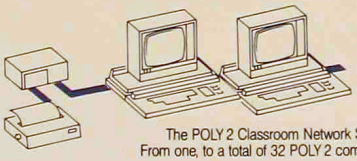
Interactive and self-paced, Poly 2 breaks down the last barriers to learning at any level.

in operation

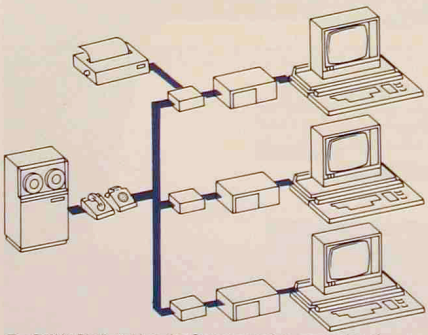
Alone, Poly 2 can perform as a learning or authoring system with cassette player and recorder.

In any 'classroom' up to 32 students or trainees can work on the same, or different lessons at the same time, and at their own rate. Control of up to 32 Poly 2 units is achieved by Progeni's Proteus microcomputer which provides for bulk storage of programs and interfacing to Printers and a wide range of other peripherals.

With the Proteus this same 'classroom' situation can be replicated across a network of locations, and be connected to a mainframe computer storing courseware and data files.



The POLY 2 Classroom Network System
From one, to a total of 32 POLY 2 computers



The POLY 2 Distributed Learning System comprises any number of POLY 2 Learning Systems connected to the D.P. Mainframe via the PROTEUS Computer modem port and suitable data communication equipment. Communications software, running in the PROTEUS Computer provides any necessary protocol conversion.

BREAKING TECHNOLOGY BARRIERS

A new generation microcomputer system, Poly 2 exploits the most advanced electronic and learning technology available today.

Because it is such an advanced system, Poly 2 does not require programming skills from its users. The necessity for students and trainees, teachers and trainers to know, or do anything remotely technical in a computing sense has been totally removed.

At the same time, those with the knowledge or expertise in learning can create their own courseware to meet their specific requirements. Together with Poly 2, Progeni provides the enabling tools for the task.

Progeni's FORGE Tools assist teachers and trainers to create their own Computer Based Training, Computer Assisted Learning or Computer Assisted Instruction. Precisely tailored courseware can be developed and altered quickly and efficiently with the simple-to-operate editors.

The FORGE Tools also give teachers and trainers the ability to design instruction. Computer Assisted Instructional Design (CAID) results in more effective learning and fewer student failures, optimising the learner-oriented, learner-managed courseware, and providing teachers and trainers with the tools for testing, measuring and analysing progress.

For more explicit simulation and information Poly 2 can also incorporate other media into its system, including slide projectors, video cassette recorders, video disc players, projection monitors and screens. With Poly 2, video can also become interactive, which means existing video programmes can be edited, or manipulated by the user. Poly 2 manages video in the same way as computer graphics, providing the user with even more powerful, realistic images. Poly 2 also operates as a learning system providing speech synthesis, or computer managed audio. The possibilities are endless.

Designed specifically for Poly 2, these Fourth Generation Learning Tools deliver an integrated system for designing, developing, implementing and managing learning, and ensure Poly 2 precisely meets the needs of teachers and trainers today, and will pre-empt those needs tomorrow.

Advanced technology made transparently simple — Poly 2 breaks the Technology Barrier once and for all.

BREAKING the COST BARRIER

The real costs of any education or training system must be measured in terms of quality results.

Poly 2 has been purpose designed to lower the real cost of education and training — and where it is not being used exclusively as a learning system, Poly 2 also provides administrators and authors with the options of word processing, data base and modelling.

Above all, cost efficiency, coupled with technical superiority ensures Poly 2 will deliver maximuim returns to its users — measured on performance alone.

In its purpose design and flexibility, Poly 2 breaks the ultimate barrier of cost.

PROGENI

Established in 1968, Progeni is now a leading international force in the application of advanced computer techniques to education, commerce, industry and government operations.

Technological excellence is a vital part of the Progeni success story.

Purpose designed hardware like Poly 2 is presented hand in hand with sophisticated learning support software. Together advanced microcomputer technology and advanced learning technology provide users with a fully integrated learning system — the most technologically advanced system available today.

Unparalleled user support is the other vital key to Progeni's success.

Progeni not only presents Poly 2 and supports users in every aspect of Poly 2 operation, but also provides system research, courseware and software support to assist users in developing their own Poly 2 courseware.

Backing technological excellence with unparalleled user support, Progeni presents the computer based learning system that breaks all the barriers — **POLY 2**

TECHNICAL DESCRIPTIONS

KEYBOARD

Full QWERTY with upper and lower case. 32 keys, function programmable.
Six special function keys: 4 cursor control
2 dual function editing.
Six learning support keys: Calculator Mode, Help, Call, Next, Back, Repeat, Exit.
One control key.

PROCESSOR

Motorola 6809, 8/16 bit processor with: 16 bit internal data bus, 16 bit arithmetic performance 4 MHZ clock.

128 kbytes dynamic memory; 2 kbytes static memory; 4 kbytes system PROM; 16 kbytes basic PROM.

Programmable Timer and Memory Management. Centronics type parallel interface. Optional RS232C interface.

VIDEO PERFORMANCE

Two text Screens (40 col. x 24 lines)
One Text Screen (80 col. x 24 lines)

FEATURE: seven colours; upper and true descending lower case; flashing of fields; non-displayed fields; background for characters; double height characters; chunky graphics; reverse video.

Two Graphic Screens (240 x 204 pixels)
One Graphic Screen (480 x 204 pixels)

FEATURE: 21 mixed colours; graphics specification

PROTEUS NETWORK CONTROLLER
Provides programme and operating system software storage, on one or two 8 inch diskette drive units for networks of up to 32 Poly 2 units.
Compatible with FLEX* and CP/M± operating systems.
Reg. mark of Technical Systems Consultants Inc.
Reg. mark of Digital Research

OPTIONAL MONITOR
Offers high resolution display available for 80 column formats.

CASE
Impact resistant, moulded fibreglass, featuring EMI/RFI shielding, and electrostatic dissipation.

VIDEO MONITOR
Full 350mm (14 in) colour display with brightness, contrast, colour, and variable sound level control.

VIDEO PERFORMANCE
Multiple screen overlay of text and graphics for effective animation and explicit simulation.

KEYBOARD
Detached or fixed (optional), meets highest international standards of ergonomics, performance and reliability.

KEYBOARD SWITCHES
Hermetically sealed in ABS plastic, delivering life expectancy of 50 million operations.

by line or boundary; Display of forms, any position, independent of original definition position. Regular pattern filling of defined boundaries.
One background screen half intensity, full screen, seven colours.

OPERATING SYSTEM
Purpose designed for any learning environment
Fully automatic user operation
Menu display on start up
Features Broadcast providing for all units in a network to be simultaneously loaded with the same programme.

NETWORK
Fully automatic, serial ring configuration using HDLC format.
Network connnection by single cable and robust connector.

Network serves up to a total of 32 Poly 2 units and communication data rates are automatically optimised to the number of units in the network. Extensive error checking and recovery performance.

LANGUAGES
Polybasic, powerful extended basic interpreter. Supports PASCAL (Omegasoft), Assembler (6809 Omegasoft), Pilot and Logo.

CP/M Reg. mark of Digital Research
Compatibility with CP/M operating system provides access to a wide range of programmes for business and office operations on a single Poly 2. Poly 2 version of CP/M features separate control of background and text colours.

POWER SUPPLY
230 volt +18%-16% AC 50Hz

MELBOURNE
68 Burwood Highway
PO Box 230
Victoria 3125
Phone: 288-7366

SYDNEY
Suite 6 Level 4
Chatswood Plaza
PO Box 745
Chatswood 2067
New South Wales
Phone: 419-6300

LOS ANGELES
715 North Central Ave
Glendale
California 91203
Phone: 956-0251

LOWER HUTT
14/18 Pretoria Street
PO Box 44107 V.I.C.
Phone: 666-014

WELLINGTON
3rd Floor
Investment House 1
Whitemore Street
Phone: 720-920

AUCKLAND
Levien Building
Cnr Airdale and
St Pauls Street
PO Box 5420
Phone: 796-977

CHRISTCHURCH
271 Madras Street
PO Box 13-027
Phone: 795-453

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